

Project Name:



Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

Project No.

0001/1408-01

<p>Photo No. 1</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>North</p>		
<p>Description: Beginning investigation into collapsed adit.</p>		
<p>Photo No. 2</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>North</p>		
<p>Description: Excavated next to DRMS-installed culvert, water muddy from soil disturbance.</p>		

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<p>Photo No. 3</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>Down</p>		
<p>Description: Seepage from soil next to piping.</p>		
<p>Photo No. 4</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>Down</p>		
<p>Description: Seepage next to the pipe is clear until entering disturbed soil.</p>		

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<p>Photo No. 5</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>North</p>		
<p>Description:</p> <p>DRMS looking at adit excavation progress.</p>		
<p>Photo No. 6</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>West</p>		
<p>Description:</p> <p>Water minimally murky from disturbed soil and water entering the North Fork from site.</p>		

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Photo No. 7	Date: 08/04/2015	
Direction Photo Taken: South/Down		
Description: Hay bales installed as filter for sediment in North Fork.		
Photo No. 8	Date: 08/04/2015	
Direction Photo Taken: Northwest		
Description: Continuing excavation at the collapsed adit, no solid bedrock found for tunnel support.		

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Photo No. 9	Date: 08/04/2015	
Direction Photo Taken: Northeast		
Description: First signs of adit, support pillar with lagging.		
Photo No. 10	Date: 08/04/2015	
Direction Photo Taken: East		
Description: Water of the North Fork just upstream of Cement Creek.		

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<p>Photo No. 11</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>East</p>		
<p>Description:</p> <p>Water of the North Fork just upstream of Cement Creek.</p>		
<p>Photo No. 12</p>	<p>Date: 08/04/2015</p>	
<p>Direction Photo Taken:</p> <p>North</p>		
<p>Description:</p> <p>Collapsed supports uncovered above anticipated adit, no sign of bedrock above the adit area.</p>		

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Photo No.
13

Date:
08/05/2015

Direction Photo Taken:

North

Description:

Adit conditions the morning of 8/5.



Photo No.
14

Date:
08/05/2015

Direction Photo Taken:

Northeast

Description:

Excavating material above the collapsed adit.



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Photo No.
15

Date:
08/05/2015

Direction Photo Taken:

North

Description:

Bedrock found above the anticipated adit.



Photo No.
16

Date:
08/05/2015

Direction Photo Taken:

North

Description:

Cleaning out excavated material, small leak.



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<p>Photo No. 17</p>	<p>Date: 08/05/2015</p>	
<p>Direction Photo Taken:</p> <p>North</p>		
<p>Description: Small leak close up.</p>		
<p>Photo No. 18</p>	<p>Date: 08/05/2015</p>	
<p>Direction Photo Taken:</p> <p>North</p>		
<p>Description: Hole starting to give way to flow.</p>		

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**Photo
No.
19**

Date:
08/05/2015

**Direction Photo
Taken:**

Northeast

Description:

Adit flow increasing.



**Photo
No.
20**

Date:
08/05/2015

**Direction Photo
Taken:**



Northeast

Description:

Water flooding out at
increased rate.



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Photo No. 21	Date: 08/05/2015	
Direction Photo Taken: West		
Description: Water flowing along access road and across waste dump.		
Photo No. 22	Date: 08/05/2015	
Direction Photo Taken: Southeast		
Description: Water flowing over the edge of the waste dump and collapsing the edge.		

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Photo No. 23	Date: 08/05/2015	
Direction Photo Taken: Southwest		
Description: Exit route starting to collapse		

Photo No. 24	Date: 08/05/2015	
Direction Photo Taken: Southeast/Down		
Description: Edge of the tailings dump collapsed, suburban trapped and half submerged in center of photo.		

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Photo No. 25	Date: 08/05/2015	
Direction Photo Taken: Northeast		
Description: Gold King adit exposed.		
Photo No. 26	Date: 08/05/2015	
Direction Photo Taken: Southeast		
Description: Water flow washing out the existing road. Note Suburban in left side of photo.		

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Photo No.
27

Date:
08/05/2015

Direction Photo Taken:

North

Description:

Exposed adit, roughly 10 feet wide by 15 feet high.



Photo No.
28

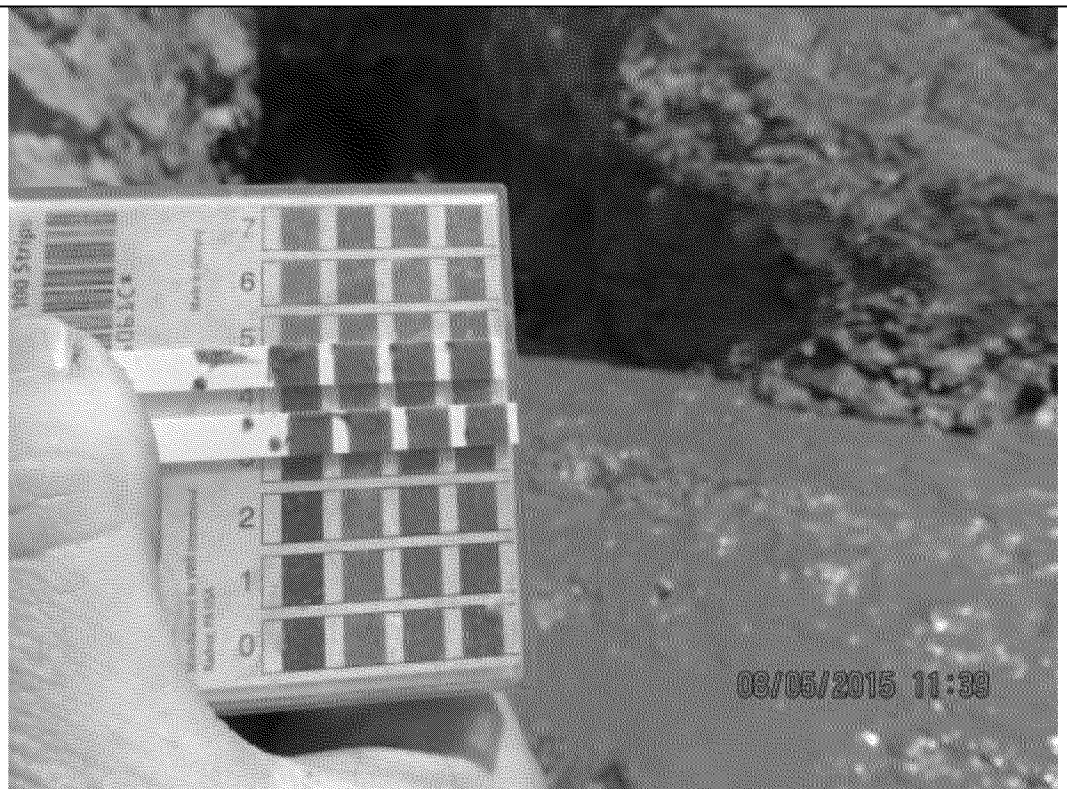
Date:
08/05/2015

Direction Photo Taken:

North

Description:

pH of discharge water is approximately 4 to 4.5.



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**Photo
No.
29**

Date:
08/05/2015

**Direction Photo
Taken:**

Northeast

Description:

Excavator redirecting
water into existing half-
pipe channel.



**Photo
No.
30**

Date:
08/05/2015

**Direction Photo
Taken:**

Southeast/Down

Description:

Collapsed portion of
waste dump and road
wash out.



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Photo No.
31

Date:
08/05/2015

Direction Photo Taken:

Northeast

Description:

Adit area after regrading.



Photo No.
32

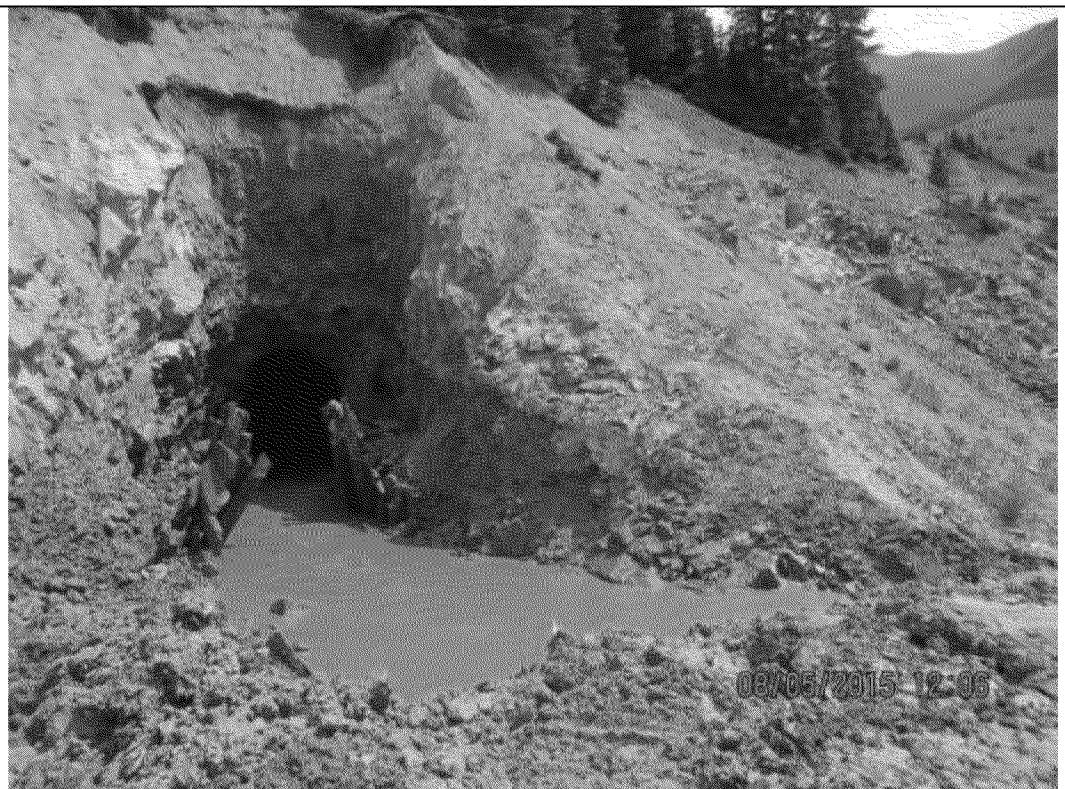
Date:
08/05/2015

Direction Photo Taken:

North

Description:

Exposed adit and redirected flow, flow is beginning to subside.



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Photo No.
33

Date:
08/05/2015

Direction Photo Taken:

East

Description:

Redirected flow into existing half culvert channel.



Photo No.
34

Date:
08/05/2015

Direction Photo Taken:



North

Description:

Closeup of adit.



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Photo No. 35	Date: 08/05/2015	
Direction Photo Taken: West		
Description: Excavator beginning work to secure safe exit route for equipment, vehicles, and personnel.		
Photo No. 36	Date: 08/05/2015	
Direction Photo Taken: East		
Description: Existing flow channel at maximum capacity.		

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Photo No.
37

Date:
08/05/2015

Direction Photo Taken:

Southwest/Down

Description:

Excavator progress on fixing access road to create a safe exit route.



Photo No.
38

Date:
08/05/2015

Direction Photo Taken:

East

Description:

Existing culvert flows subsiding minimally.



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Photo No.
39

Date:
08/05/2015

Direction Photo Taken:

North

Description:

No changes visible in adit structure or supports. Sloughing of materials inside the mine can be heard.



Photo No.
40

Date:
08/05/2015

Direction Photo Taken:

South/Down

Description:

Excavator progresses to washed out North Fork crossing.



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Photo No. 41	Date: 08/05/2015	
Direction Photo Taken: Southwest/Down		
Description: Noted visitor to the site, unknown person, walked up to excavator at North Fork crossing and then back to vehicle.		

Photo No. 42	Date: 08/05/2015	
Direction Photo Taken: Southwest/Down		
Description: Visitor leaving.		

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Photo No.
43

Date:
08/05/2015

Direction Photo Taken:

South/Down

Description:

Excavator continues to fix access road.
Continued high flow is slowing progress.



Photo No.
44

Date:
08/05/2015

Direction Photo Taken:

East

Description:

Half culvert flow continues to subside.



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Photo No.
45

Date:
08/05/2015

Direction Photo Taken:

North

Description:

Water levels lowering at adit entrance, no visible changes to structure.



Photo No.
46

Date:
08/05/2015

Direction Photo Taken:

West

Description:

Flight for life Helicopter coming up the valley to pick up a person who crashed a vehicle on Corkscrew Pass, not related to this event.



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Photo No. 47	Date: 08/05/2015	
Direction Photo Taken: Southwest		
Description: Close up of Flight for Life.		

Photo No. 48	Date: 08/05/2015	
Direction Photo Taken: Northeast		
Description: Flow path from adit, water flow appears to have stabilized around 1400.		

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Photo No.
49

Date:
08/05/2015

Direction Photo Taken:

North

Description:

pH measured at approximately 4.5.



Photo No.
50

Date:
08/05/2015

Direction Photo Taken:



Southwest/Down

Description:

DRMS arrives back on site, had visited the site around 0930 to check on progress of investigation, left approximately 1030, prior to blowout.



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Photo No. 51	Date: 08/05/2015	
Direction Photo Taken: North		
Description: Looking up from the toe of the Gold King waste dump directly south of the adit.		
Photo No. 52	Date: 08/05/2015	
Direction Photo Taken: Northeast		
Description: Gold King Mine tailings dump after water discharge.		

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Photo No. 53	Date: 08/05/2015	
Direction Photo Taken: East		
Description: Looking east across Cement Creek from County Road 10 to excavator fixing County Road 52 at North Fork crossing just south of Red and Bonita Mine.		

Photo No. 54	Date: 08/05/2015	
Direction Photo Taken: East		
Description: Cement Creek crossing at Gladstone.		



PHOTOGRAPH LOG

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